UMUSOV, A.V.; KETAT, O.B.; KOL'TSOVA, V.V.

Find of reef facies in the Permian sediments of the Northern Caucasus, Dokl. AN SSSR 160 no.5:1168-1171 F '65.

(MIRA 18:2)

1. Volgogradskiy nauchno-issledovatel'skiy institut nefti i gaza. Submitted July 13, 1964.

KOL'TSOVA, Ye. V.: Master Agric Sci (diss) -- "The formation of economic features in hybrid plum seedlings depending on the choice of starting forms".

Michurinsk, 1957. 20 pp (Min Agric USSR, Fruit and Vegetable Inst im I. V.

Michurin), 100 copies (KL, No 4, 1959, 129)

# "APPROVED FOR RELEASE: 06/13/2000

#### CIA-RDP86-00513R000824010014-1

KOLTSOVA, Ye. 1

USSR/Cultivated Plants - Fruits. Berrics.

Ref Zhur - Biol., No 10, 1958, 44307 Abs Jour

Kolitsova, Ye.V. Author

: The Formation of Economically Valuable Characteristics in Inst

Tile the Hybrid Seedlings of the Plum.

Agrobiologiya, 1957, No 3, 79-84. Orig Pub

A study of the winter resistance and of the quality of the fruit of 2657 hybrids of the plum of the Michurin Institu-Abstract

te of Horticulture. The degree of the frost damage to the seedlings was calculated according to the 6-point system. The most promising ones with regard to winter resistance yield and the quality of the fruit are the seedlings obtained from crossing of the local winter resistant, along-the-Volga varieties of plums (Ternosliv, letniy; Tern kistevoy) with the Michurin variety Renclod regorma.

The repeated crossing of the new varieties between each

Card 1/2

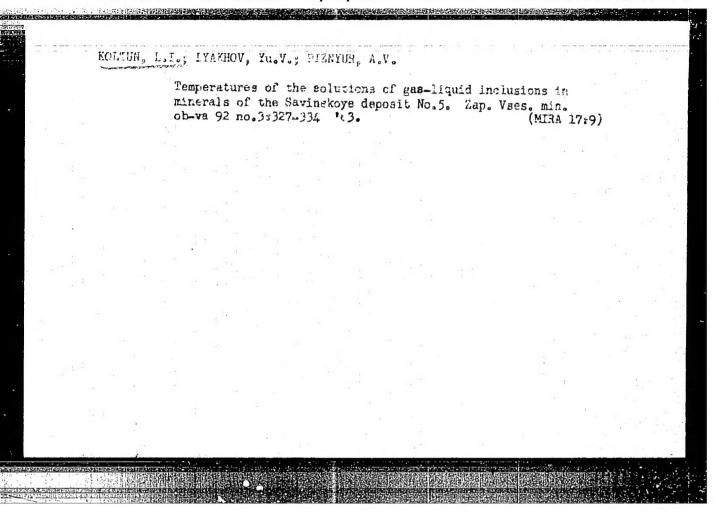
- 150 -

KOL'TSOVA, Z.A., kand.sel'skokhoz. nauk

Experiments in controlled transformation of the spring wheat Mil'turum 321 into a winter crop in Sverdlovsk Province.

Agrobiologiia no.2:227-235 Mr-Ap '63. (MIRA 16:7)

1. Sverdlovskiy sel'skokhozyaystvennyy institut.
(Sverdlovsk Province-Wheat-Varieties)



# Wolfun, L.I. Using mineralothermometric analysis in studying the formation of some gold ore deposits of the Urals. Trudy VNIIP 1 no.2:63-88 '57. (NIRA 12:3) (Kochkar'--Gold ores) (Beresovskiy (Sverdlovsk Province)—Gold ores) (Geochemistry)

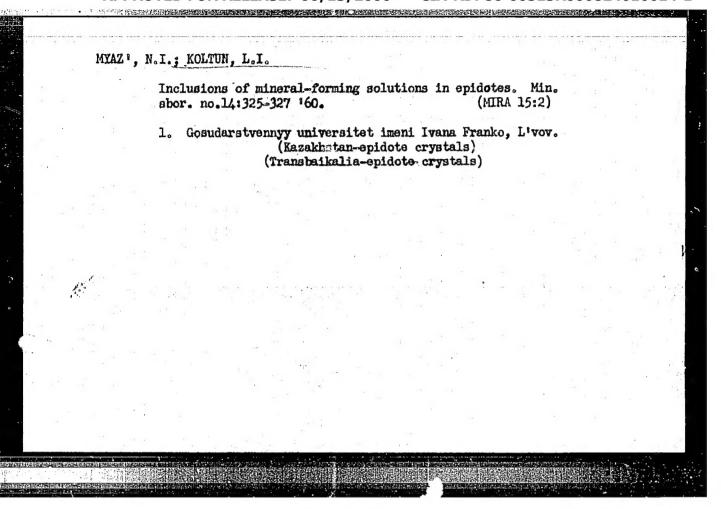
KOLTUN, L.I.; LYAKHOV, Yu.V.; PIZNYUR, A.V.

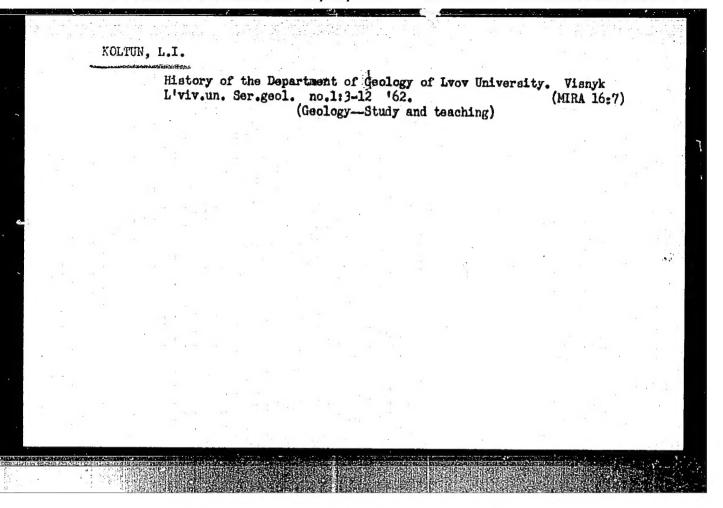
Formation aximites. Zap.Vses.min.ob-va 90 no.3:301-367 '61.

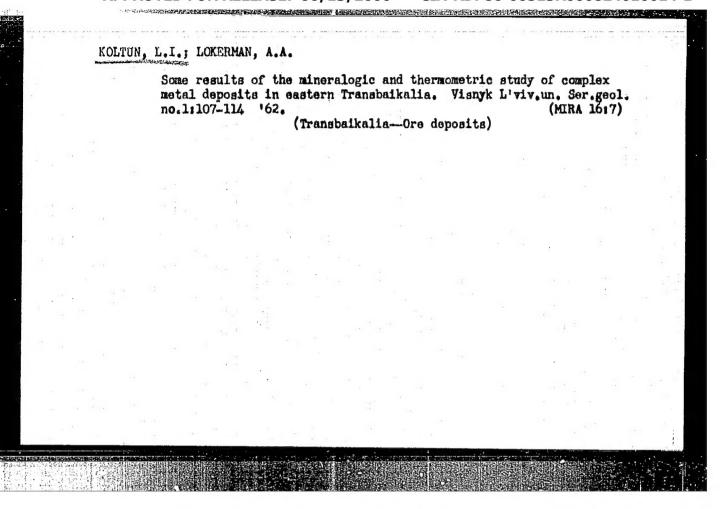
(MIRA 14:10)

1. L'vovskiy universitet.

(Aximite)







KOLTUN, L.I.; LOKERMAN, A.A. Temperature of the formation of the Novo-Shirokinskoye complex metal deposit (eastern Transbaikalia). Vest. L'vov. un. Ser.

(MIRA 19:1)

geol. no.2:89-93 164.

KOLTUN, L.I.; GOLOVCHENKO. N.G.

Determination of temperatures of mineral formation in the Nikitovka mercury deposit based on the inclusions in minerals. Kin. sbor. no.16:407-410 \*62. (MIRA 16:10)

1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov. (Ukraine-Mineralogy)

CORZHEVSKIY, D.I.; KOLTUN, L.I.; LAZARENKO, Ye.K.; LAZ'KO, Ye.M.;
MATKOVSKIY, O.I.; SLIVKO, M.M.; YASINSKAYA, A.A.

Academician A.G. Betekhtin; obituary. Min. sbor. no.16:454456 '62. (MIRA 16:10)

(Betekhtin, Anatolii Georgievich, 1897-1962)

GILLER, Ya.L.; ROBROVNIK, D.P.; CORETSKIY, V.A.; CORZHEVSKIY, D.I.;
KOLTUN, L.I.; LAZAPENKO, Ye.K.; LAZKO, Ye.M.; REZVOY, D.P.

Gugo Leonardovich Piotrovskii; obituary. Min. sbor. no.16:
456-458 '62. (MIRA 16:10)

(Piotrovskii, Gugo Leonardovich; 1897-1962)

KOLTUN, L.I.; MATKOVSKIY, O.I.

Third All-Union Conference on the Formation and Distribution of Endogenetic Ore deposits. Min. sbor. no.16:464-466 '62.

(HIRA 16:10)

1. Gosudarstvennyy universitet imeni I.Franko, L'vov.

(Ore deposits)

s/025/61/000/010/002/003 26901 D264/D304

AUTHOR:

Koltun, M., Engineer

TITLE:

The future of solar batteries

Nauka i zhizn', no. 10, 1961, 63 - 64

TEXT: Ways of improving the efficiency of solar batteries are considered. In 1960 the efficiency of solar batteries stood at 14% and the theoretical effective level for silicon batteries is 22%. The efficiency of a semiconductor is determined mainly by the width of its forbidden zone. Research has established by the width of its forbidden zone. Research has established that energy quanta can best be trapped by a semiconductor with a forbidden zone 1.5 ev wide. With silicon, the width of the forbidden zone is only 1.2 ev, but synthetic semiconductors, termed intermetallic, have recently been developed with a forbidden zone nearer to 1.5 ev. The maximum efficiency of such semiconductors utilize the visible portion of the spectrum. semiconductors utilize the visible portion of the spectrum, wasting the ultraviolet and infrared bands (for the former the forbidden zone is too narrow, for the latter - too large).

Card 1/2

Story about a short circuit. Nauka i zhizn' 29 no.2:67-68
F '62. (MIRA 15:3)
(Physical metallurgy)

KOLTUN, M., inzh.

Solar energy ponds. Tekh.mol. 30 no.11:36 \*62. (MIRÁ 16:9)
(Selar energy ponds)

KOLTUN, M.A., inzh.

Essential oil from wastes of the aromatic group of tobacco. Mesl.-zhir. prom.28 no.11:32 N. 62. (MIRA 15:12)

1. Sukhumskiy tabachno-fermentatsionnyy zavod.
(Essences and essentail oils)
(Tobacco)

KOLTUN, Mariya Isaakovna; KLEVENSKAYA, V.V., red.; PELIKAN, Yu.V., tekhn. red.

[Physicogeographical regionalization of the Soviet Union; index to literature published in 1917-1960]Prirodnoe (fizikogeograficheskoe) raionirovanie territorii Sovetskogo Soiuza; ukazatel' literatury, izdannoi v 1917-1960 gg. Moskva, Gos. biblioteka SSSR im. V.I.Lenina, 1962. 379 p. (MIRA 16:1) (Bibliography—Physical geography)

KOLTUN, M.I.; KLEVENSKAYA, V.V., red.; VASIL'YEVA, L.P., tekhn.red.

[Economic regionalization of the Soviet Union and prerevolutionary Russis (history and theory of the problem); bibliography] Ekonomicheskoe raionirovanie Sovetskogo Soiuza i dorevoliutsionnoi Rossii (istoriia i teoriia voprosa); bibliograficheskii ukazatel. Hoskva, 1959. 42 p. (HIRA 12:9)

1. Moscow. Publichnaya biblioteka.
(Russia--Economic conditions--Bibliography)
(Bibliography--Russia--Economic conditions)

ACCESSION NR: AP4033405

8/0076/64/038/003/0723/0725

AUTHOR: Koltun, M. M.

TITLE: The nature of the surface film of a silicon photocell formed by anodic etching

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 3, 1964, 723-725

TOPIC TAGS: silicon photocell, surface film, anodic etching, optical character istics, electrical characteristics, heat balance, semiconductor, spectral analysis, x ray analysis

ABSTRACT: The film formed on the surface of silicon by anodic etching (usual ly the final operation in the preparation of silicon photocells and semiconductors was investigated since this film determines the optical and electrical characteristics of the photocell and its heat balance when operating under strong radiation heating. The silicon samples, in an electrolyte consisting of 20% NH4F, concentrated HCl, and concentrated H3PO4 in a 20:2:1 ratio, were etched with a current density of 5-20 milliamps/cm², using a platinum cathode. Spectral and

CIA-RDP86-00513R000824010014-1

ACC NR: AP7000034

SOURCE CODE: UR/0051/66, 021/003/0030/063/

AUTHOR: Koltun, M. H.; Golovner, T. M.

ORG: none

TITLE: Coating of silicon photocells with a translucent material

SOURCE: Optika i spektroskopiya, v. 21, no. 5, 1966, 630-637

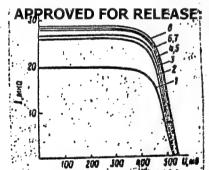
TOPIC TAGS: semiconductor device, photoconductive cell

ABSTRACT: Results of the experimental and theoretical study of silicon photocells coated with a translucent material are given. The following translucent materials were used to coat the silicon photocells, employing the vacuum deposition method: MgF<sub>2</sub> (n = 1.36), SnO<sub>2</sub> (n = 2.0), SiO (n = 1.9), SiO<sub>2</sub> (n = 1.7), SiO<sub>2</sub> (n = 1.44), CeO<sub>2</sub> (n = 2.2), and ZnS (n = 2.3). The n-index data are given for  $\lambda$  = 0.8  $\mu$ . Control glass specimens coated with translucent materials were used to evaluate absorption by the material. Absorption ranging from 2 to 3% at optical thickness d = 0.15  $\mu$  was established for SnO<sub>2</sub>, ZnS, CeO<sub>2</sub>, and SiO films in the 0.4—0.5  $\mu$  range only. The effectiveness of these materials as translucent coatings is only slightly affected by this low value of abosrption. Experimental study indicates that the use of translucent coatings increases the spectral sens tivity of silicon photocells and also improves their volt-ampere characteristics. g. 1 shows volt-ampere characteristics of single photocells before and after coating with MgF<sub>2</sub>, SiO<sub>2</sub>,

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ACC NR: AP7000034



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photocell before and after coatin with translucent films (d = 0.15 µ)

1 - Noncoated photocell (efficier y = 7.6%); 2 - MgF<sub>2</sub> (9.6%); 3 - SiO<sub>2</sub> (10%); , 5 - CeO<sub>2</sub> and ZnS (10.5%); 6, 7 - SiO<sub>8</sub>, SnO<sub>2</sub> (1.7%); 8 - SiO (11.0%).

CeO<sub>2</sub>, ZnS, SiO<sub>x</sub>, SnO<sub>2</sub>, and SiO films with d = 0.15  $\mu$ . Measurements were made using a simulator of solar radiation. A 41—44% increase in efficienc; was observed for the photocells when SiO<sub>x</sub>, SnO, and SiO films were applied. Orig. art. has: 4 formulas, 5 figures, and 1 table. [CS]

SUB CODE: 09/ SUBM DATE: 14May65/ ORIG REF: 005/ OTH REF: 007/ ATD PRESS: 5110

Card - 2/2

ACC NR: AP7003153

SOURCE CODE: UR/0368/66/005/006/0770/0/73

AUTHOR: Kagan, M. B.; Koltun, M. H.; Landsman, A. P.

ORG: none

TITLE: Reflection coefficient of highly-doped GaAs in the spectral range from 0.2 to 25 u

SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 6, 1966, 770-773

TOPIC TAGS: solid state laser, semiconductor laser, gallium arsenide, laser material spectroscopy, solar cell, light reflection coefficient, optic spectrum

ABSTRACT: Measurements of the regular-reflection coefficient are given for single-crystal p-type GaAs samples with Zn doping (for carrier concentration from 1.7 to  $15 \cdot 10^{19}$  cm<sup>-3</sup>), and n-type samples (for a carrier concentration of  $3 \cdot 10^{15}$  cm<sup>-3</sup>). An SF-4 spectrophotometer is used from 0.2 to 0.75  $\mu$  and an IKS-14 spectrophotometer from 0.75 to 25  $\mu$ . Several samples were chemically polished and their surface irregularities did not exceed 0.3  $\mu$ , while one sample had irregularities of about 1  $\mu$  and exhibited a lower reflection coefficient in the ultraviolet and optical region of the spectrum. In the optical region the carrier concentration has little influence on reflection properties. In the infrared, the reflective power increases considerably with free carrier concentration, while at the same time the minimum occurring at wavelengths where the index of refraction approaches unity is shifted

Card 1/2

UDC: 535.39

ACC NR: AP7003153

toward shorter lengths, approximately from 12 to 4  $\mu$ . The reflection coefficient can be brought down from 32 to 0.5—1.0% in any given part of the optical spectrum by SiO coatings of suitable thickness (0.21  $\mu$ ), while MgF<sub>2</sub> and SiO<sub>2</sub> coatings (0.21  $\mu$ ) are not as effective. Two methods of sharply reducing the reflection from highly-doped single crystals in the 3—25  $\mu$  region are discussed. One of these involves coating the surface with irregularities 10—30  $\mu$  thick and treating the same chemically; the other — coating the surface with a layer of organic silicon varnish 10—40  $\mu$  thick, highly absorbing in the infrared but transparent in the 0.4—1.0  $\mu$  regions. In the infrared region, use of silicon-based coatings can increase the thermal radiative power of GaAs surface (at 25°C) from 0.49—0.51 to 0.8—0.92. These coatings do not damage the surface, and good diffused junctions are still possible. One can expect that the use of the above procedures will considerably improve the performance of lasers and solar cells. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 22Dec65/ ORIG REF: 001/ OTH REF: 002

Card 2/2

L 08877-67 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6025966 SOURCE CODE: UR/0051/66/021/001/0116/0118

AUTHOR: Koltun, M. M.; Kagan, M. B.

7

ORG: none

TITLE: Gallium arsenide optical filters

SOURCE: Optika i spektroskopiya, v. 21, no. 1, 1966, 116-118

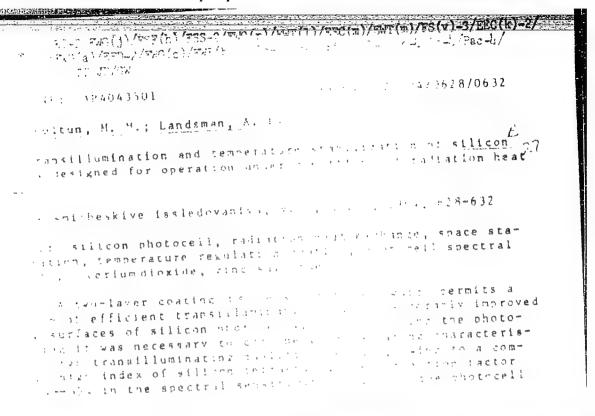
TOPIC TAGS: gallium arsenide, gallium optic material, optic filter

ABSTRACT: The optical properties of GaAs single crystals at the edge of the absorption band were studied and it was found that they can serve as high quality optical filters in the near infrared. A narrow band filter can be created by diffusing a low-ohmic layer of p-type GaAs on a high-ohmic sample of GaAs. Transmission curves are shown for samples having various concentrations of n-type surfaces. The transmission of the filters can be improved by coating both surfaces of the crystals with SiO. The pass band can be narrowed by using glass plates with films of  $SnO_2$ . Such a filter has high reflectivity in the region  $\lambda > 1.5 \mu$ . The SnO film completely stops radiation of  $\lambda > 2.5 \mu$ , while maintaining high transmission (70-80%) in the region 0.9 to 1.2  $\mu$ . Orig. art. has: 2 figures.

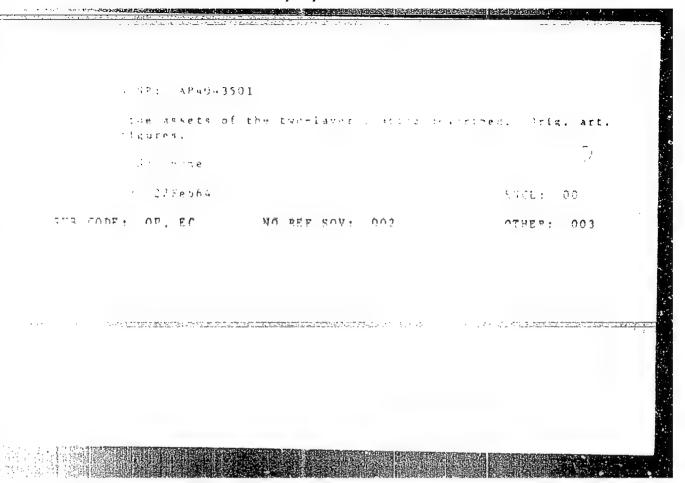
SUB CODE: 20/ SUBM DATE: 25Dec65/ ORIG REF: 001/ OTH REF: 000

Card 1/1 -/C

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deficit in turn, restits and in the feature of the visit in was nine of the visit in the feature of the visit in the control of the visit in the control of the visit in the control of the maximum reduction of the found of the intermediate rotat in the feature of the intermediate layer of the intermediate layer of the intermediate layer of the coating was made from the coating was not the coating was not the coating of the coating was made from the coating of the coating was not the coating of the coating was not the coating of the coating was not coating was not the coating of the coating was not coating wa
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FWT(1)/EWT(m)/EPF(c)/EPF(n)-2/EWG(m)/EWF(t)/EWF(c) 1.79(c) JD/WW/GS UR/0000/65/000/000/0029/0033 HON NR: AT5015789 31 Koltun, M. M.; Landeman, A. P. G+1 Thermal balance of silicon photocells operating under radiation heat-. - conditions AN SSSR. Energeticheskiy institut. Ispol'rovantye colnechncy energii on khosyaystve SSSR (Use of solar energy in the economy of the Moscow, Izd-vo Nauka, 1965, 29-33 \* uS silicon photocell The possibilities of improving the thermal balance of silicon photostering the optical characteristics of their working surfaces are soly and experimentally explored. Special treatments of the working · · ware intended to reduce the working temperature of so ar-illuminated abstracella. Two mathods of surface treatment were used: (1) The anode

JAON NR: AT5015789

and (2) The chemical etching in HF mixed with HNO, which resulted in the surface with a gray SiO, film. It was found that: (1) The electro-catment practically does not protect the photocell from radiational in the reflectance of the surface within 3-30 practically did not to the chemical treatment holds the reflectance under 8-10% within which testifies to a high absorption and 0.7-0.92 radiation. "The high to thank L. D. Kislovskiy for his advice and assistance in the masurements." Orig. art. has: 2 figures and 3 formulas.

COM: none

1 12 12Feb65

ENCL: 00

SUB CODE: EM, TO

V: 003

OTHER: 004

KOLTUN, R.K. (Leningrad, ul. Dzerzhinskogo, 33, kv.23)

Therapeutic results with the use of new modifications of Suslov's rhinoplasty. Vest. khir. 92 no.5:64-68 My '64.

(MIRA 18:1)

1. Iz kliniki khirurgicheskoy stomatologii (zav. - prof. A.A. K'yand-skiy) 1-go Leningradskogo meditsinskogo instituta imeni I.P. Pavlova.

KOLYANDR, L.Ya.; GRINBERG, A.M.; KOLTUN, R.M.; ZASLAVSKAYA, T.I.

Determination of constants of pure o-xylene and the development of indexes for characterization of commercial product. Zhur. Priklad. Khim. 26,438-42 \*53. (GA 47 no.19:9703 \*53)

1. Kharkov Coke-Chem. Plant.

LITVINENKO, M.S.; NOSALEVICH, I.M.; GLUZMAN, L.D.; GIMMEL'SHTEYN, T.Ye.; KOLTUN, R.M.

Tasks of the byproduct coking industry in augmenting the number of coke-oven by-products. Koks i khim. no.3:41-45 '56. (MLRA 9:8)

1. Ukrainskiy uglekhimicheskiy institut (for Litvinenko, Nosalevich, Gluzman); 2. Giprokoks (for Gimmel'shteyn); 3. Khar'kovskiy koksokhimicheskiy zavod.

(Coke industry)

FRACKONIAK, D.; KOLTUN, S.

Absorption anisotropy of some organophosphors. Acta physica Pol 23 no.6:685-694 Jo \*63.

1. Physics Department, Nicholas Copernicus University, Torun.

KOLTUN, Sergey Ivanovich; IVUSHKIN, Mikhail Prokhorovich; SOSHOVSKIY,
Georgiy Ivanovich; GAL, kanddat tekhnicheskikh nauk,
redaktor; PUCHKOV, S.O., inzhener, redaktor; DUGHA, N.A.
tekhnicheskiy redaktor

[Economy of sheet steel] Ekonomiia shtempovoi stali. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 50 p.
(MLRA 10:5)

(Sheet-metal work)

KOLEUM. Sergey Ivanovich; KAZARINOV, Boris Mikolayevich; KAYDALOV, P.K., inzhoner, iptement; DUGIMA, N.A., tekhnicheskiy redaktor.

[Improvements forge shops; practices of the Ural Machine Manufacturing Plantj Vsovershenstvovenita v kuznečhnom teskhe; iz opyta Uralmashsavoda. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1956, 51 p.

(Forging machinery)

VAULIN, Yuriy Sergeyevich; KOLTUN, Sorgey Ivenovich; LEVANOV, Aleksey Nikolayevich; KON'KOV, A.S., dotsent, retsenzent; KATS, I.S., inzh., red.; DUGINA, N.A., tekhn.red.

[Design and planned use of dies] Raschet i planirovanie shtampov.

Moskva, Gos.nauchmo-tekhn.izd-vo mushinostroit.lit-ry, 1959. 93 p.

(MIRA 12:12)

(Dies (Metalworking))

KAMENSHCHIKOV, Grigoriy Georgiyevich; KOLTUN, Sergey Ivanovich, inzh.;
NAUMOV, Vasiliy Prokhorovich, inzh.; CHERNOBROVKIN, Beris
Sergeyevich, inzh.; POLYAKOV, V.P., inzh., retsenzent; KAZARINOV,
B.K., inzh., retsenzent; KON\*KOV, A.S., dotsent, red.; DUGINA,
N.A., tekhn.red.

[Forging operations] Kuznechnoe preizvodstvo. Izd.3., ispr. i dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959.
447 p. (MIRA 12:8)

1. Uralmashmavod (for Koltun, Chernobrovkin). 2. Sverdlovskiy zavod transportnogo mashinostroyeniya (for Naumov).

(Forging)

KOLTUN, Sergey Ivanovich; BCRIESKIY, Mikhail Livovich; KATKOV, Leonid Ivanovich; KAZRINOV, Boris Mikolayevich; KATKOV, N.P., insh., retsenzent; BASSSIN, V.V., inzh., retsenzent; KATKOV, I.S., inzh., red.; YERMAKOV, M.P., tekhn.red.

[Machanisation of minor processes in press forging plants]
Malaia makhanisatsiia kusnechno-pressovykh tsekhov; al'bom cherteshei. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.

lit-ry, 1960, 104 p. (MIRA 14:2)

(Forge shops--Equipment and supplies)

KOLTUN, Sergey Ivanovich; BORINSKIY, Mikhail L'vovich; SYCHEV, A.M., inzh., retsenzent; KOVAIENKO, A.V., inzh., red.; DUGINA, N.A., tekhn.red.

[Effecting savings of die steel] Ekonomiia shtampovoi stali.
Pod red. A.V.Kovalenko. Moskva, Mashgiz, 1961. 43 p.

(MIRA 15:5)

(Dies (Metalworking)) (Tool steel)

KOLTUN. Sergey Ivanovich; RAYTSES, Veniamin Borisovich; MOZHAYSKIY,
V.S., inzh., retsenzent; KON'KOV, A.S., dots., red.;
DUGINA, N.A., tekhn. red.

[Manufacture and use of dies for drop forging] Izgotovlenie i
ekspluatatsiia shtampov dlia gorischei shtampovki. Pod red.
A.S.Kon'kova. Moskva, Mashgiz, 1961. 56 p. (Nauchnopopuliarnaia biblioteka rabochego kuznetsa, no.14)

(MIRA 15:4)

(Dies (Metalworking))

### "APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010014-1

15-57-4-4588

Referativnyy zhurnal, Geologiya, 1957, Nr 4, Translation from:

p 84 (USSR)

Yasinskaya, A. A., Koltun, V. I. ATTTHORS:

Dolomite Pseudomorphs After Rock Salt in the Stebnits TTTLE:

Series in the Cis-Carpathian Region (Psevdomorfozy

dolomita po kamennov soli v otlozheniyakh stebnitskov

serii Predkarpat'ya)

Mineralog. sb. L'vovsk. geol. -o-vo pri un-te, 1956, PERIODICAL:

Nr 10, pp 339-340.

Casts of halite crystals have been discovered in clays ABSTRACT:

enriched in Ca and Mg carbonates. They occur chiefly at the boundary between two layers of clay, the combined thickness of which is 0.5 cm to 2 cm. The layers are distinguished from each other by difference in color. At the top of the lower layer and the bottom of the upper layer numerous, variously oriented, yellowish brown cubes, 1 mm to 2 mm across, have been observed.

Card 1/2

L'vov, 1958. 16 pp (Min of Higher Education. L'vov State U im Iv:Frenko),
150 copies. (FT 25-53,109)

-47-

## Carbonate concretions from Miocene deposits of cis-Carpathia. Geol.zhur. 18 no.4:91-97 '58. (MIRA 12:1) (Carpathian Mountain region--Concretions)

KOLTUN, Vladimir Ivanovich: TKACHUK, L.G. [Tkachuk, L.H.]. prof., doktor geologo-mineral.nauk, otv.red.; CHEKHOVICH, H.Ya., red.izd-va; RAKHLINA, N.P., tekhn.red.

[Lithology of Stebnik sediments in the northwestern part of the Soviet cis-Carpathian region] Litologiia stebnyts'kykh vidklediv pivnichno-zekhidnoi chastyny Radians'koho Peredkarpattia. Kyiv. Vyd-vo Akad.nauk URSR, 1959. 124 p. (HIRA 12:10) (Carpathian mountain region--Petrology)

TKACHUK, L.G. [Tkachuk, L.H.]; GURZHIY, D.V. [Hurzhii, D.V.]; KOLYUN, V.I.;
RIPUN, M.B.

Progress in petrographic studies of western regions of the
Ukraine during the Soviet regime. Pratsi Inst. geol. kor.
kop. AN URSR 1:108-117 \*59. (MIRA 14:6)

(Ukraine—Petrology)

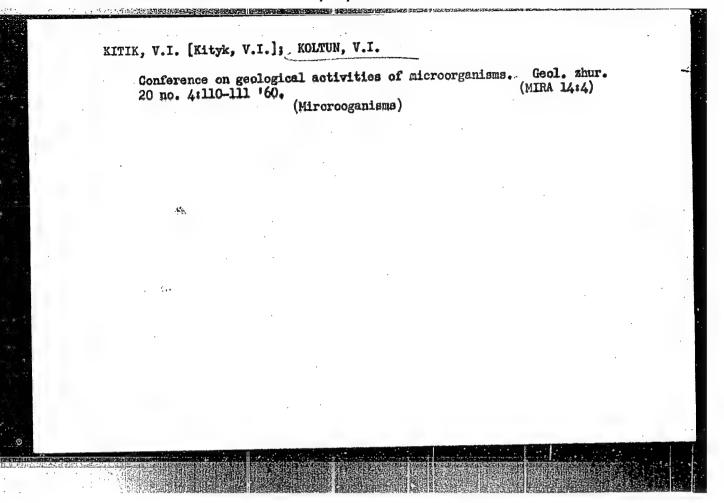
TKACHUK, L.G. [Tkachuk, L.H.]; GURZHIY, D.V. [Hurzhii, D.V.]; KOLTUN, V.I.

Clay colites in old sedimentary formations of the Russian Platform.

Geol. zhur. 20 no.2:84.489 '60.

(Rissian Platform...Oolite)

(Rissian Platform...Oolite)



TKACHUK, L.G. [Tkachuk, L.H.]; KOLTUN, V.I.

Some problems of karst in the gypsum-anhydrite horizon of the Dhiester Valley. Geol. zhur. 23 no.4168-74 \*63 (MIRA 17:7)

1. Institut geologicheskikh nauk AN UkrSSR.

GURZHIY, D.V. [Hurzhii, D.V.]; KOLTUN, V.I.

Upper Cretaceous siliceous rocks in the surroundings of Rava-Russkaya. Geol. zhur. 25 no.2:57-63 '65. (MIRA 18:6)

1. Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR.

KOLTUN, V.I.; SEN'KOVSKIY, Yu.N.

Supergenesis of Cretaceous sediments on the Volyn'-Podolian Plateau. Dokl. AN SSSR 160 no.4:931-933 F '65.

(MIRA 18:2)

1. Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR. Submitted June 8, 1964.

## Neogenic gypsum minerals from natural sulfur in the sulfur ores of the cis-Carpathian region. Min. sbor. 18 no.3:316-319 '64.

1. Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR, L'vov.

KOLTUN, V. M.

Dissertation: "Cornacuspongida of the Northern and Far Eastern Seas of the USSR." Cand Biol Sci, Inst of Zoology, Acad Sci USSR, Moscow, Oct-Dec 53. (Vestnik Akademii Nauk, Noscow, Jun 54)

SO: SUN 318, 23 Dec 1954

KULTUNON IN.

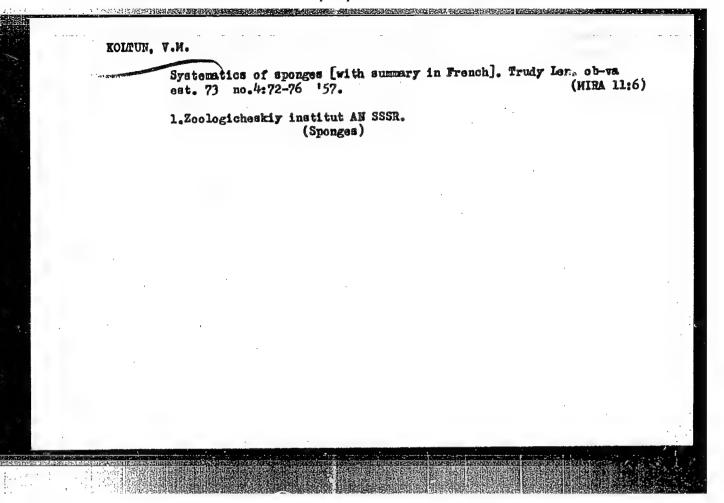
AKUMUSHKIN, I.I.; BARAMOVA, Z.I.; BRODSKIY, K.A.; VIRKETIS, M.A.;
VOLODCHEKO, N.I.; GALKIN, Yu.I.,; GUR'YANOVA, Ye.F.; DOGEL'
V.A.; D'YAKOHOV, A.M.; ZEVINA, G.B.; IVAMOV, A.V.; KIR'YANOVA,
Ye.S.; KOBYAKOVA, Z.I.; KOLTUN, V.M.; KOHZHUKOVA, Ye.D.;
KOROFKEVICH, V.S.; KLYUGE, G.A.; ROZINA-LOZINSKIY, L.K.;
LOMAKINA, N.B.; NAUMOV, D.V.; PERGAMENT, T.S.; RESHETNYAK,
V.V.; SAVEL'YEVA, T.S.; SKARLATO, O.A.; SOKOLOV, I.I.;
STHELKOV, A.A.; TARASOV, N.I.; USHAKOV, P.V.; SHCHKDRINA, Z.G.
YAKOVLEVA, A.M.; USHAKOV, P.V., obshchiy rukovoditel';
PAVLOVSKIY, Ye.N., akademik, redaktor; STRELKOV, A.A. redaktor;
BRODSKIY, K.A., redaktor; ARONS, R.A., tekhnicheskiy redaktor.

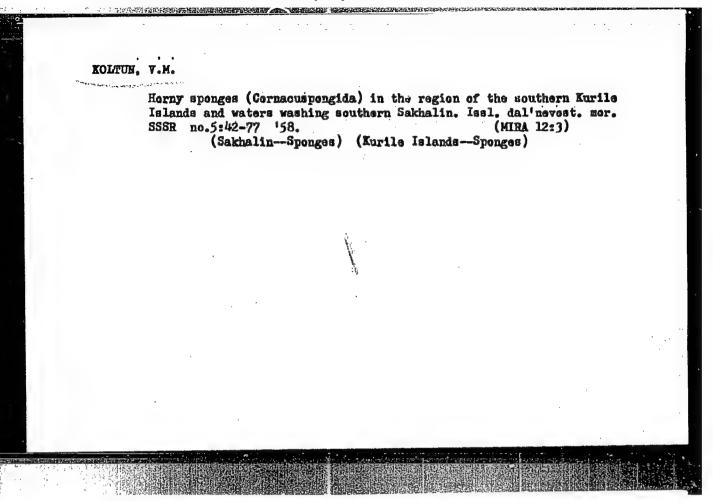
[Atlas of invertebrates of the Far East seas of the U.S.S.R.] Atlas besposvomochnykh dal nevestochnykh moral SUSK. Moskva. Isd-vo Akad. neuk SSSR, 1955. 240 p.. 66 plates. (NLRA 8:10)

1. Akademiya nank SSSR. Zoologicheskiy institut. (Soviet Far East-Invertebrates)

### KOLTUN, V.M.

New sponge genera and species (Spongia, Cornacuspongida) from the Okhotsk and Bering Seas. Trudy Zool. inst. 18:13-18 '55. (MLRA 9:2) (Okhotsk, Sea of--Sponges) (Bering Sea--Sponges)





KOLTUN, V.M.

Spicule analysis as a method of micropaleontological research. Paleont. shur. no.3:148-150 '59. (NIRA 13:4)

1. Zoologicheskiy institut Akademii nauk SSSR. (Paleontological research)

LINDBERG, G.U.; SHCHEDRINA, Z.G.; DOGEL', V.A.; RESHETNYAK, V.V.; STRELEOV,
A.A.; KOLTUH, V.H.; HAUMOV, D.V.; IVAROV, A.V.; BYKHOVSKIY, B.Ye.
ZHUKOV, Ye.V.; PERGAMENT, T.S.; KOROTKEVICH, V.S.; USHAKOV, P.V.;
KIYUGK, G.A.; ANDROSOVA, Ye.I.; GOSTILOVSKAYA, M.G.; BRODSKIY, K.A.;
GUSEV, A.V.; TARASOV, H.I.; GUR'YAMOVA, Ye.F.; VAGIN, V.L.;
LOMAKINA, H.B.; BULYCHEVA, A.I.; KOBYAKOVA, Z.I.; LOZINO-LOZINSKIY,
L.K.; YAKOVLEVA, A.M.; GALKIN, Yū.I.; SKARIATO, O.A.;
AKIMUSHKIN, I.I.; D'YAKOMOV, A.M.; BARANOVA, Z.I.; SAVEL'YEVA, T.S.;
SKALKIN, V.A.

List of the fauna of marine waters of southern Sakhalin and southern Kuriles. Issl.dal'nevost.mor.SSSR no.6:173-256 159. (MIRA 13:3)

1. Zoologicheskiy institut AN SSSR.
(Sakhalin--Marine fauna)
(Kurile Islands--Marine fauna)

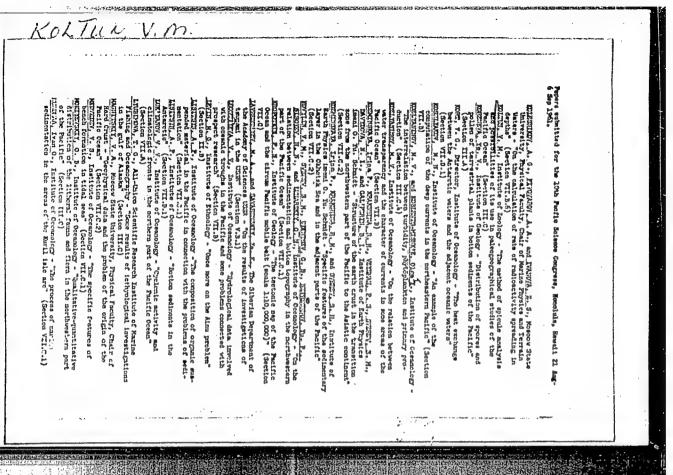
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KOLTUN, V.M., kand. biol. nauk.

Collection of sponges gathered by the Soviet Antarctic Expedition. during 1955-1958. Inform. biul. Sov. antark. eksp. no.8:28-31 159. (MIRA 13:3)

1.Zoologicheskiy institut AN SSSR.
(Antarctic regions--Sponges)

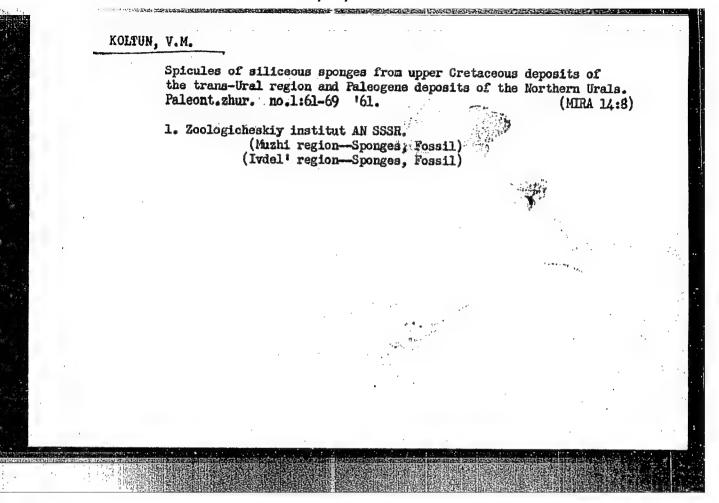
# EDLTUN, V.M. Spicule analysis and its use in geology. Izv. AN SSSR. Ser. geol. (25 no.4:96-102 Ap '60. (MIRA 13:11) 1. Zoologicheskiy institut AN SSSR, Leningrad. (Sponges, Fossil)



KLEPIKOV, V.V., kand. geogr. nauk; MOROSHKIN, K.V.; BOGOYAVLENSKIY, A.N.; NAZAROV, V.S.; MAKSIMOV, B.A.; ZHIVAGO, A.V.; BRODSKIY, K.A.; KOLTUN, V.M.; ANDRIYASHEV, A.P.; PAKHAREVA, M.M., red.; KOTLYAKOVA, O.I., tekhn. red.

[Transactions of the Soviet Antarctic Expedition] Trudy Sovetskoi antarkticheskoi ekspeditsii, 1955. Leningrad, Izd-vo "Morskoi transport." Vol.22. [Third Sea Expedition of the diesel-electric ship Obi, 1957-1958; observational data] Tret'ia morskaia ekspeditsiia na d/e "Obi" 1957-1958 gg.; materialy nabliudenii. Pod red. V.V.Klepikova. 1961. 233 p. (MIRA 14:11)

Sovetskaya antarkticheskaya ekspeditsiya, 1955.
 (Antarctic regions—Oceanographic research)



### KOLTUN, V.M.

Tetraxonida and Cornacuspongida of the Pacific shoals near Paramushir and Shumshu Islands. Issl.dal'nevost.mor.SSSR. no.81181-199 '62. (MIRA 15112)

1. Zoologicheskiy institut AN SSSR.

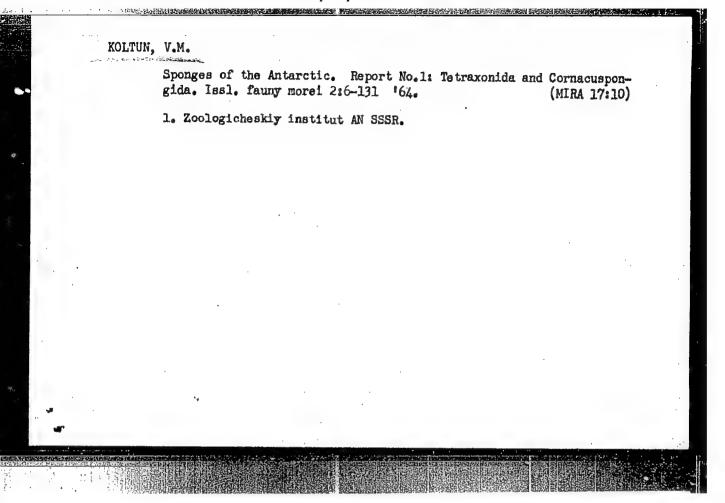
(Paramushir Island—Sponges) (Shumshu Island—Sponges)

KOLTUN, V.M.

Sponges (Porifera) of the Caspian Sea. Zool.zhur. 41 no.10: 1169-1176 0 '62. (MIRA 15:12) 1469-1476 0 162.

1. Zoological Institute, Academy of Sciences of the U.S.S.R., Leningrad.

(Caspian Sea\_Sponges)



KOLTUN, V.M.

Hydroliological work of high-latitude Arctic expeditions on the icebreaker "F. Litke" and the diesel-electrics "Oh!" and "Lena." Trudy AANII 259:5-12 '64.

Study of the bottom fauna of the Greenland Sea and the central part of the Arctic basin. Ibid.:13-78

Sponges (Porifera) collected in the Greenland Sea and in the region north of Spitsbergen and Franz Josef Land by the expeditions on the icebreaker "F. Litke" in 1955, the diesel-electric "Ob!" in 1956 and the diesel-electric "Lena" in 1957 and 1958. Ibid. \$143-166 (MIRA 17:12)

DANSKER, V.L.; KAPUSTIN, S.M.; KOLTUN, V.M. (Leningrad)

Experience in the use of endotracheal anesthesia in cerebral angiography. Vop. neirokhir. 27 no.3:24-25 My-Je 163. (MIRA 17:9)

1. Leningradskiy nauchno-issledovatel skiy nevrokhiru-gicheskiy institut imeni Folenova (dir. - prof. V.M.Ugryumov).

KOLTUNETKO, B. I.

7708. Koltunenko, B. I. Stavropol'ye na vsesoyuznoy sel'skokhozyaystvennoy vystavke. Stavropol', KN. IZD, 1954. 56s. s ill. 20sm 5.000 ekz. 55K.-- (55-3882)p 63(064)(47) / 63st(47.911)

SO: Knizhmaya Letopis', Vol. 7, 1955

LISTVIN, I.; KOLTUNENKO, V.

Introducers of innovations in collective farms. NTO 5 no.5:13 My 163. (MIRA 16:7)

1. Zamestitel' predsedatelya Stavropol'skogo krayevogo pravleniya Nauchno-tekhnicheskogo obshchestva sel'skogo khozyaystva (for Listvin). 2. Chlen Nauchno-tekhnicheskogo obshchestva sel'skogo khozyaystva (for Koltunenko).

(Stavropol' Territory-Collective farms)

ZACZEK, Zenon, inz.; BUTWIIOWSKI, Jerzy, inz.; KOLTUNIAK, Alojzy, inz.

Flanning the repair method, the repair and start of the 4,7 MW power unit Nr. 2 WWAG, taken our of operation by a commission of the Electric Power Engineering Association for Lower Silesia. Gosp paliw 11 Special issue no. (95):58 Ja 163.

1. Elektrownia Wroclaw.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824010014-1"

ZACZEK, Zenon, inz.; BUTWILOWSKI, Jerzy, inz.; KOLTUNIAK, Alojsy, inz.

Planning the repair method, the repair and start of the 4,7 MW power unit Nr. 2 WUMAG, taken our of operation for Lower Silesia. Gosp paliw 11 Special issue no.(95):58 Ja \*63.

1. Elektrownia Wroclaw.

GELLER, Yu.A.; MOISEYEV, V.F.; KOLTUNOV, A.A.

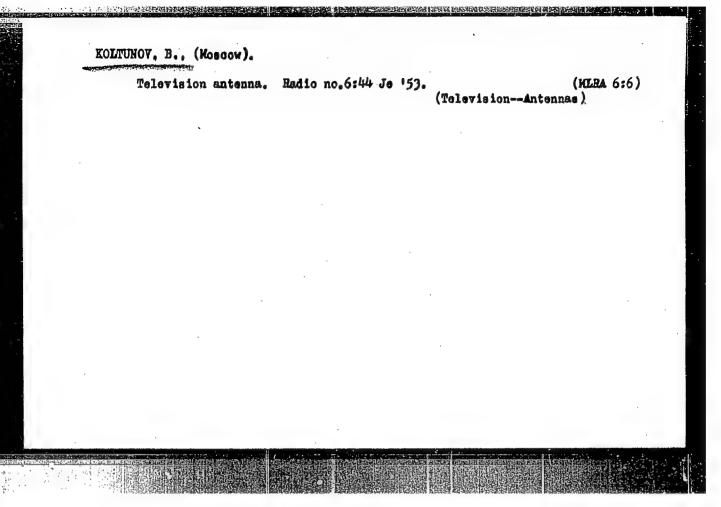
Heat conductivity of high-speed steels. Metalloved. i term. obr. met. no.9:2-7 S '63. (MIRA 16:10)

1. Moskovskiy stankoinstrumental'nyy institut.

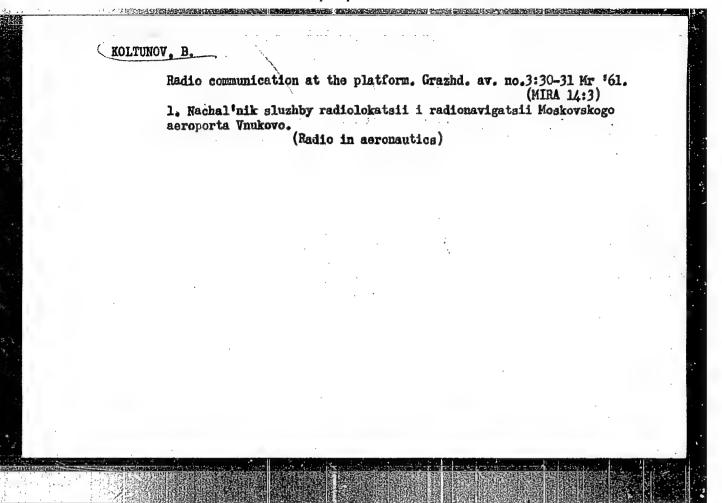
KOLTUNOV, A. G.; RESHETNIKOVA, A.D.; FADEYEVA, M.A.; YESIKOV, M.S. and FILIPFOVA-NUTRIKHINA, Z.L. and PUGACHEV, A.G. "Materials on the Diagnosis of Toxoplasmosis in C:ildren"

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Voprosy tokscolasmoza, report theses of a conference on toxoplasmosis, Moscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology im. N. Y. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.



APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824010014-1"



VORONITSYN, K.I., kand. tekhn. nauk, red.; TIZENGAUZEN, P.E., kand. tekhn. nauk, red.; NADBAKH, M.P., red.; TANTSEV, A.A., starshiy nauchnyy sotr., red.; AERAMOV, S.A., kand. tekhn. nauk, red.; ABRAMOV, D.A., red.; BOGDANOV, N.I., starshiy nauchnyy sotr., red.; VINOGOROV, G.K., kand. tekhn. nauk, red.; GAVRILOV, I.I., starshiy nauchnyy sotr., red.; GUSARCHUK, D.M., starshiy nauchnyy sotr., red.; D'YAKONOV, A.I., red.; ZAV'YALOV, M.A., kand. tekhn. nauk, red.; ZARETSKIY, M.S., starshiy nauchnyy sotr., red.; KACHELKIN, L.I., starshiy nauchnyy sotr., red.; KISHINSKIY, M.I., kand. tekhn. nauk, red.; KOLTUNOV, B.Ya., starshiy nauchnyy sotr., red.; OSIPOV, A.I., kand. tekhn. nauk, red.; SHINEV, I.S., kand. ekon. nauk, red.

[Materials of the enlarged session of the Scientific Council of the Central Scientific Research Institute for Mechanization and Power Engineering in Lumbering on problems concerning power engineering and the electrification of the lumber industry]
Materialy rasshirennoi sessii Uchenogo soveta TsNIIME po voprosu energetiki i elektrifikatsii lesnoi promyshlennosti. Moskva, 1961. 75 p.

(MIRA 15:4)
(Continued on next card)

VORONITSYN, K.I. -- (continued) Card 2.

LKhimki.TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i energetiki lesnoy promyshlemosti. 2. Nachal'nik
TSentral'nogo byuro tekhnicheskoy informatsii lesnoy promyshlennosti (for Nadbakh). 3. Direktor TSentral'nogo nauchnoissledovatel'skogo instituta mekhanizatsii i energetiki lesnoy
promyshlennosti (for Voronitsyn). 4. Uchenyy sovet TSentral'nogo
nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki
lesnoy promyshlennosti (for D'yakonov). 5. Nachal'nik otdeleniya
energetiki i sredstv avtomatizatsii TSentral'nogo nauchnoissledovatel'skogo instituta mekhanizatsii i energetiki lesnoy
promyshlennosti (for Zaretskiy).

(Lumbering) (Electric power)

KOLTUNOV, D. V.

"Cementing of the Foundation of Hydraulic Constructions," by A. N. Adamovich and D. V. Koltunov, published by the State Publishing House for Energy, Moscow-Leningrad, 1953

Survey of the problem arising in the utilization of cementing for hydro-technical constructions. A comparison between the different methods of building watertight walls and fundamental rules for their projecting. Advice on the execution of the work and the necessary equipment. The results of observations on the pressure.

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KOLTUNOV. D. V.

7552

ADAMOVICH, A. N., BALYKOV, A. L., KOLTUNOV, D. V., TEKHNICHESKIYE USLOVIYA NA PROIZVODSTVO GIDROTEKHNICHESKIKH RABOT. TSEMENTATSIYA SKAL'NYKH POROD I GRAVELISTO - GALECHNYKH GRUNTOV V. OSNOV-ANIYAKH I BEREGOVYKH PRIMYKANIYAKH GIDROTEKHNICHESKIKH SOORUZHENIY TU-31-45 (VREMENNYYE). SOST. USESOYUZ PROYEKTNYM IN\*TOM "GIDROENERGOPROYEKT". UTV. V. 1954 G. M. - L., GOSENERGOIZDAT, 1954, 80 S. S. CHERT. 20 SM. (M-VO ELEKTROSTANTSIY SSSR. UPR. KAPITAL'NOGO STROITEL'STVA). 2.000 EXZ. 3 R. 30 K. - NA OBOROTE TIT. L. SOST: A. N. ADAMOVICH, A. L. BALYKOV, D. V. KOLTUNOV (55-3551) 626.01 \$\neq 624.138\$ (083.78)

SO: KNIZHNAYA LETOPIS-Vol. 7, 1955

- The Control of the

KOLTUNOV, D. Y.

AID P - 2131

Subject : USSR/Engineering

Card 1/1 Pub. 35 - 20/20

Author : Editorial staff, this journal

Title : Adamovich, A. N. and <u>Koltunov</u>, D. V. <u>Tsementatsiya</u>
osnovaniy gidrosooruzheniy (Concreting Foundations of
Hydraulic Structures). Gosenergoizdat, 1953. (Book

Review)

Periodical: Gidr. stroi., no.3, 48, 1955

Abstract : The book is recommended as a manual for designers and

engineers. However, some problems are said to be insufficiently discussed. Several erros are listed and the editorial staff of this journal hope that the

second edition of the book will be corrected.

Institution: None

Submitted : No date

# He did not retire ... Sov. profesoiuzy 19 no.8:8-9 Ap '63. (Voronesh-Radio journalism) (Voronesh-Machinery industry) (Pensioners-Employment)

AL'TSHULER, Grigoriy Aleksandrovich; LAKHMAN, Boris Nusimovich; SIDOROVICH, Nelli Ivanovna; KOLTUROV, G.S., retsenzent; OSHEMKOV, N.P., retsenzent; KOLTUROVA, M.P., red.; BOEROVA, Ye.N., tekhn. red.

[Planning in railroad transportation] Planirovanie na sheleznodoroznom transporte. Moskva. Vses. izdatel'sko-poligr. ob<sup>m</sup>edinenie M-va putei soobshcheniia, 1961. 302 p. (MIRA 14:6) (Railroads—Management)

KOLTUROV, I.B., inshener; LITYAK, L.K., inshener.

Improving technological processes in preparing blanks for bearing ring manufacture. Mashinostroitel' no.4:26-29 Ap '57.

(Bearing industry)

From readers's letters. Good. i kart. no.1:76-78 Ja '57.

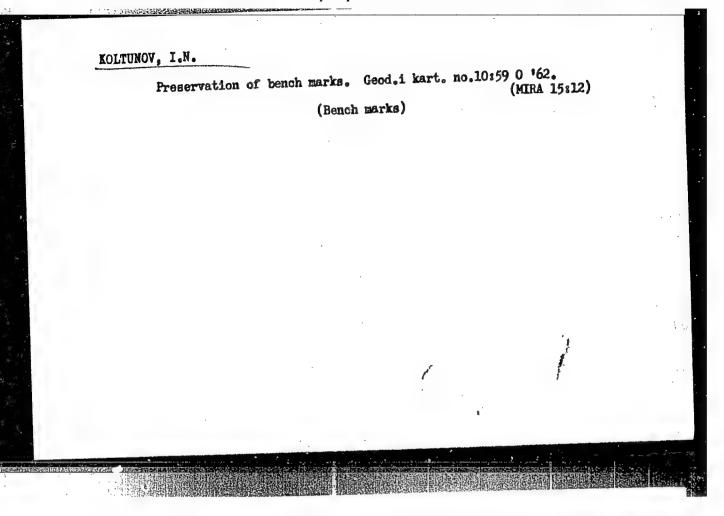
From readers's letters. Good. i kart. no.1:76-78 Ja '57.

(MEMA 10:3)

1. Hachal'nik otryada Ho. 67 aero-geodesicheskogo pred
Eoltunov) 2. Hachal'nik otryada He. 70 aero-geodesicheskogo pred
Foltunov) 3. Zamestitel' nachal'nika otryada (for priyatiya (for Sinyagivskiy) 3. Zamestitel' nachal'nika otryada (for Popov)

Chernov). 4. Inspektor Otdela tekhnicheskogo kontrolya (for Popov)

(Topographical surveylug)



3-58-3-2/32

AUTHOR:

Koltunov, M.A., Candidate of Technical Sciences

TITLE:

The Vuzes as Active Participants in the International Geophysical Year (Vuzy - aktivnyye uchastniki mezhdunarodnogo

geofizicheskogo goda).

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, Nr 3, pp 9 - 15 (USSR).

ABSTRACT:

The article describes in detail the objectives of the International Geophysical Year and the part played by Soviet scientific institutions. The Inter-Departmental Committee guiding the IGY work in the USSR is headed by the Vice-President of the Akademii nauk SSSR (Academy of Sciences USSR) Academician I.P. Bardin. The author deals with the study of the antarctic region, the use of rockets and artificial satellites to probe the upper layers of the atmosphere. Turning to the composition of air at an altitude of 80 - 90 km, the author states that 10 kg of nitric oxide, let into the air at this altitude, produced a bright glow, 3 - 4 km in diameter. This was the result of liberating a considerable amount of energy through recombination of oxygen atoms. The question of utilizing this energy as a source

Card 1/4

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3-58-3-2/32

The Vuzes as Active Participants in the International Geophysical Year

of power for aircraft engines, is being discussed in scientific literature. The IGY program also includes the study of ozone and the Leningrad and Moscow universities are participating in the organization of this work. Professor S.F. Rodionov of the Leningrad University constructed a spectrophotometer with light filters, by which interesting data has been received recently on the fluctuations in the quantity of ozone in connection with meteorological factors. Professor A.P. Kuznetsov of the Moscow University has designed a new quartz spectrograph which, like the international standard device of Dobson, determines the quantity of atmospheric ozone and estimates its distribution at different altitudes. The measuring of the thermodynamic parameters of the atmosphere's higher layers by means of devices fixed on rockets is also taking place. At the Tomsk, Rostov and Gor'kiy universities observations are being conducted on the positions of the basic ionospheric layers and their electronic concentration. Solar activity is being studied by the Soviet State Astronomical

Card 2/4

3-58-3-2/32

The Vuzes as Active Participants in the International Geophysical Year

place. One of the important questions of modern geophysics and stronomy is the problem of the shifting of latitude and longitude to various points of the Erath's surface.

AVAILABLE:

Library of Congress

Card 4/4

OGIBALOV, Petr Matveyevich; KOLTUNOV, M.A., dots.; YERMAKOV, M.S., tekhn. red.

[Problems in the dynamics and stability of shells] Voprosy dinamiki i ustoichivosti obolochek. Moskva, Izd-vo Mosk. univ., 1963. 416 p. (MIRA 16:8)

KOLTUNOV, M. A.

PA 242T92

USSR/Mathematics - Elasticity Theory

May 52

"Computations of Finite Displacements in Problem of the Flexure and Stability of Plates and Sloping Shells," M. A. Koltunov, Chair of Theory of Elasticity

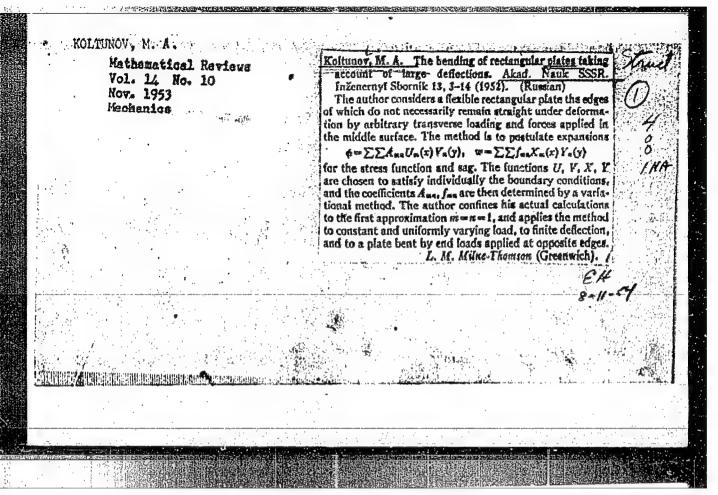
"Vest Moskov U, Ser Fiz, Mat, i Yest Nauk", No 3, pp 13-28

Analyzes behavior of bent plates under load using method of nonlinear theory, which allows him to follow behavior of plates after loss of stability and to establish the upper and lower limits of stability. Received 15 Jan 52

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Elastic Plates and Shells									
Calculation of and sloping she	final permu ells. Vest.	tations in a prob Mosk. un. 7 no.	lem on flection a 5, 1952.	nd stability of plate					
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9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.



KOLTUNOV, M. A.

"Calculation of Flexible Flates and Shells". Vestn. inzhenerov i tekhnikov, No 3, pp 117-123, 1953

The aurhor briefly presents results of some of his investigations which had been described in earlier articles (Vestn. Mosk. un-ta, ser. Fiz. matem i yest. n., 1952, No 5; Inzh. sb., 1952, Vol 13). He gives formulas and graphs for the calculation of flexible plates and slating shells with positive Gaussian curvature which are subjected to the action of a transverse load and forces in the median surface. (RZhMekh, No, 8, 1955)

SO: Sum No 812, 6 Feb 1956

KOLTUNOV, M. A.

USSR/Physics - Elasticity Theory

Sep 53

"Behavior of a Plate After Loss of Stability," M. A. Koltunov, Chair of Elasticity Theory

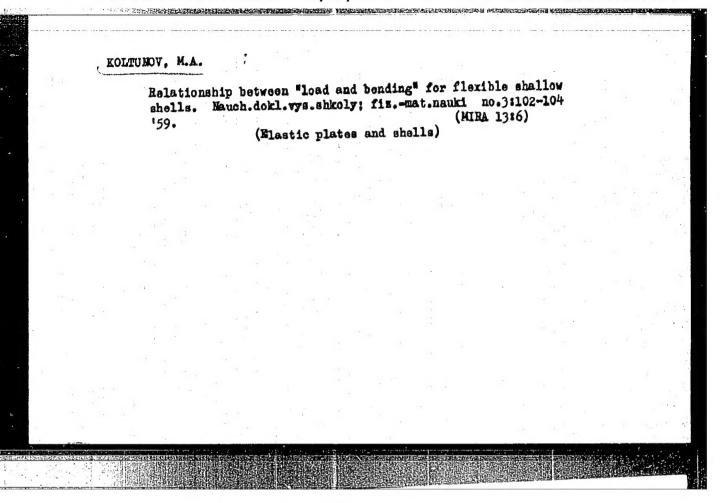
Vest Mos Univ, Ser Fizikomat i Yest Nauk, No 6, pp 57-62

Considers a rectangular plate which is an elemental cell of an overlap (shell covering) and which is initially subjected to the two-sided action of compressing forces distributed uniformly along the edges before loss of stability. After the plate buckles the stresses on the edges proceed to redistribute themselves, in which case the intensity

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of the load increases in places near the angles and decreases in the central part of the edges. Derives formulas describing this redistribution of stresses. Gives a table showing the values of the parameters of load P as a function buckling parameter and ratio of sides.

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	Behavior of	a plate after loss	s of rigidity.	Vest. Mosk.un.	8 no.9:57-62 S '5 (HLRA 6:11)
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		en de la compania de La compania de la co			i Tanàna ao amin'ny faritr'i Nobel dia 2008. Ilay ao amin'ny faritr'i Nobel dia 2008. Ilay ao amin'ny faritr'i A



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10 9100 also 1103, 1327

AUTHOR:

Koltunov, M.A.

TITLE:

A more exact solution of the stability problem for rectangular panels of flexible shallow shells

PERIODICAL: Moskva. Universitet. Vestnik. Seriya I. Matematika,

mekhanika, no. 3, 1961, 37 - 45

TEXT: Most of the problems involved in the non-linear theory of. flexible shells are solved using some approximate methods, and as they are very complex, one's efforts are limited to solving the first approximation only which is not satisfactory in many cases. In this paper the author explains the Bubnov-Galerkin method loading to the very accurate solution of the problem of the rectangelar panel stability of rlexicle shallow shells. The problem of convergence for similar cases was studied by M. Kornishin and Kh. Mushtari (Ref. 2: Ustoychivost' beskonechno dlinnoy pologoy tsilindricheskoy paneli pod deystviyem normal'nogo ravnomerno davleniya. IZv. KFAN SSSR; seriya fiz-mat.i tekh. nauk, No. 7, 1955) Card 1/7

S/055/61/000/003/003/004 D235/D302

A more exact solution .

who showed that the solution depends on the convergence. The author considers the solution of a problem of bending a shallow shell taking one, two three and four members of the series, approximating the function of bending and stresses. The problem could be reing the function of bending and stresses of equations

$$W = D \Delta^2 \Delta^2 \omega - h \left( k_2 \frac{\partial^2 \gamma}{\partial x^2} + k_1 \frac{\partial^2 \gamma}{\partial y^2} \right) - h \left( \frac{\partial^2 \gamma}{\partial y^3} \frac{\partial^2 \omega}{\partial x^2} + \frac{\partial^2 \gamma}{\partial x^2} \frac{\partial^2 \omega}{\partial y^2} - 2 \frac{\partial^2 \gamma}{\partial x \partial y} \frac{\partial^2 \omega}{\partial x \partial y} \right) - g = 0.$$
 (2)

where w = w(x, y) - is the sag of the middle point on the surface of the shell;  $\varphi = \varphi(x, y)$  - function of the stresses; E = Young's modulus;  $D = \frac{Eh}{3}$  - the cylindrical rigidity; h - thickness

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